INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	USSR (Kharke	ov and Rostov Oblast)	REPORT		
SUBJECT		ve Repair Plant in Izyum	DATE DISTR.	29 Decem	ber 1958
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LOCOMOTIVE REPAIR PLANT IN INTUM

- 1. The Locemotive Repair Flant was located approximately 200 meters from the redirent station in the city of Inyum (H 49-12, E 37-16). It was connected to the redirent station by four sidings and a foot path. The plant was surrounded by a three-meter-high wooden fence with two entrances. There were no underground installations or recently constructed buildings in the plant. The plant did not have a muserical designation, nor did it repair military equipment.
- 2. The principal functions of the plant were the repairing of locomotives and the manufacture of the following machines and small parts:
 - Milling machines.

intendic congressed-air pover homers. ъ.

Serens and belts. These were manufactured in three sizes: 60 x 20

millimeters, 70 x 7 millimeters, and 200 x 40 millimeters. Brill bits. These were produced in sizes varying from 60 x 5 millimeters to 200 x 40 millimeters.

information about only two shops: the repair and assembly 50X1-HUM shop and the spare parts shop:

hip and assembly shop. This was a one-story 60 x 40 x 5-meter ingreed brick structure with a skylighted metal roof. It did not contain a becoment. This shepwas divided into two sections. The first section was in charge of assembling and testing the many. The second section was in charge of repairing and inhelecting damaged locasetives.

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there parts shop. This was a one-story 150 x 50 x 5-meter firepress ъ. brick structure with a stylighted metal roof. There was no base-ment in the building. This shop manufactured drill bits and screws and helds which were used in spare parts for locomotives. Six lathes of different caliber and two milling machines of unknown make were here. The norm for this shop was forty drill bits per day.

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4. Sigglies and transportation. Such items as three meter by 20 to 80-milli-meter steel ingots of various hardnesses, lecementive wheels, pipe, lubri-eating grease and oil, axles, and the reds were shipped to the plant by redl. The four plant sidings were connected to the Esyum-Rostov radiated line. Brains arrived at the plant every other day at the unspecified hour. The plant made no use of highway or 50X1-HUM

water transportation.

5. Working conditions at the plant were described as follows: the plant worked one eight-hour shift a day (except for the security guards, see below), Menday through Saturday from 0800 to 1600 hours with three quarters of an hour for lunch at noon. Rupleyees were entitled to 12-day summer

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vacations. A lathe operator earned from 700 to 800 rubles a month. Workers were paid on a piecework basis. Sanitary conditions in the plant were fair. A clinic was available for emergency cases. Sick workers were taken to hospitals and sanitariums in Izyum and sometimes to Kharkov.

6. Flant security. The plant employed 20 blue-uniformed, armed guards who worked three shifts. Two or three guards controlled the personnel entrances, and three or four guards were posted outside the plant. Each worker had to present a metal tag (which showed his number and photograph) to the entrance guard and then to the timekeeper. These tags were hung on a beard, according to their numerical order, in the shop. The workers picked up their tags again as they left the shop. Workers were not permitted to enter shops other than their own. The plant had a fire brigade

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to the	main administr	ctive office	fulfilled. The shops were s which was headed by the plan the spare parts shop,	t director	50X1-HU
by a si	top chief who w	es en engine	er and a master (in charge of	production	
centro.	L)•	13	ed as follows: one master, sev	an isthe	_50X1-HU
M. Calledon .	MATERIAL WORLD		cool supply, one tool supply		
the no	nes of the follo	owing Soviet	erks, and one chief engineer.		50X1-HU
Ivanov	ren workers, tennes of the follo (fmu), Flant (evich (fmu), sp	owing Soviet	; personnel:		50X1-HU

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NOVOCHERKASSK ELECTRIC LOCOMOTIVE WORKS

Location and General Description

	LOCASION and General Peacification	
1.	The Novocherkassk Electric Locomotive Works was located five kilometers northeast of Novocherkassk (N 47-15, E 40-15); this plant was sometimes	
	referred to as the Budenny, S.M.	50X1-HUM
	It was subordinate to the Ministry of Electric	50X1-HUM
	Power Stations. A streetcar line connected the city of Novocherkassk	00/(1 110111
	with the plant, and the Moscow railroad line passed by 100 meters from	
	the plant.	50V4 LILIM
	area was rectangular in shape and located on a flat terrain. Some	50X1-HUM
	buildings, believed to be living quarters for plant personnel, were	
	located outside the rectangular 1000-meters-long by 600-meters-wide	
	part-brick, part-wood 2.50 meters tall fence which surrounded the plant	
	perimeter. The plant had two comployee entrances and a railroad siding	
	entrance. The main axis of this plant ran north and south. No secret sections or underground installations existed in this plant. A new	
	building was under construction for the assembly shop and another was	
	in the planning stage for the steel casting shop. See	50X1-HUM
	sketch No. 1 of plant layout on page 7.	00,1110111
. •	Electric-locomotive: Production	
2.	This plant constructed electric locomotives. As they were made up of so many parts weighed approximately 200 tons and were painted green and blue. These locomotives were used to haul passenger trains although they were made to haul freight trains. The small sized locomotives were used in plants and sea and river ports. The brand was NEZ, series 22, and VAU, series 22. This plant did not construct or repair military equipment. Parts were shipped by rail to the Caucasus and the Urals and other unidentified destinations. Shop No. 2 - Steel Casting Shop	⁵ 50X1-HUM
3•		50X1-HUM
_	sketch No. 2 of shop No. 2 layout on page 8 .) This shop was	50X1-HUM
	constructed in an F-shape and measured 100 x 100 meters. It contained	
	two projections which measured 20 x 15 meters and 12 x 8 meters respectively. This was a fireproof structure with a sheet metal roof	
	and skylights. A two-story section was devoted to office space. This	
	show wordured steel castings for marks used in electric locatives.	50344 1 11 18 4
	These parts ranged in size from 0.100 kilograms to 3 metric tons.	50X1-HUM
	(See sketch No. 3 of parts produced in this plant on page	
	This shop also produced parts for its own machinery. Most of the plant's	
	machinery was of German and Soviet make, but some was of and 5 make. In the steel casting shop brand Nos. 10,000 and	0X1-HUM
	3,000 pre-war molding machines in good condition were used. A special	
	brigade worked on Sundays on the machine maintenance. This shop was	
	the largest shop in the plant and produced about 500 parts daily. Approximately 500 persons, (300 specialists and 200 laborers) were	

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Working Conditions

- 10. The plant worked a six-day work-week. The work-day was divided into two eight-hour shifts and one seven-hour shift, as follows:
 - a. First shift: 0730 to 1630 hours with a one hour rest period.
 - b. Second shift: 1630 to 0030 hours with a half-hour rest period.
 - c. Third shift: 0030 to 0730 hours except Sundays.

The plant worked a six-hour day on Saturdays and on days preceding holidays. Workers under eighteen years of age worked a six-hour day every day. Vacations ranged from twelve to 24 days per year, according to the type of work engaged in. In addition to Sundays, there were about seven national holidays each year. salary of 930 rubles 50X1-HUM a month, and a 200-ruble bonus when the production plan was completed. Sanitary conditions were good.

50X1-HUM

Security and Fire Precuations

50X1-HUM

11.	the security and fire precautions an armed 50	X1-HUN
	guard was posted outside the plant, To enter the plant a worker had to show a	X1-HUM
	document bearing his name, photograph, and the name of his shop. Special identification cards were issued to those temporarily assigned to the plant for training or other purposes. The plant had its own fire brigade and each shop was equipped with basic fire-fighting equipment such as hand fire-extinguishers, sand bags, water pumps, and hoses. All employees were instructed in fire prevention methods.	

Personnel

12. From 2500 to 3000 employees worked at the plant. The personnel was organized as follows: Director (named Petrov), deputy directors, a personnel manager, and the heads of the following sections: technicaleconomy, metallurgy, construction, machine shop, electric shop, supply section, administrative office, payroll, coordination and work planning, and the testing section.

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Future Production Plans

plans were being made to increase the 50X1-HUM then-current production yield two or three times. He did not know whether this plan had ever been put into effect. New shops, production methods, and automation were also being planned. plants of 50X1-HUM this type could easily be converted to military use.

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C-O-N-F-I-D-E-N-T-I-A-L

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Legend to Locomotive Works

Sketch No. 1 of Novocherkassk Electric

50X1-HUM

- 1. Cast iron shop.
- 2. Steel stock.
- 3. Wood and metal molds shop.
- 4. Forge.
- 5. Paint shop.
- 6. Sheet metal shop.
- 7. Machine shop.
- 7 (bis) Assembly shop.
- 8. Insulation and machine shop.
- 9. Heating plant.
- 10. Commressors and electricians' shop.
- 11. Galvanizing shop.
- 12. Machine tool repair shop.
- 13. Transformers.
- 14. Garage.
- 15. Construction shops.
- 16. Personnel offices.
- 17. Fire squad.
- 18. Entrance.

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C-O-N-F-I-D-E-N-T-I-A-L

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Legend to

Sketch No. 2 of Steel Casting Shop

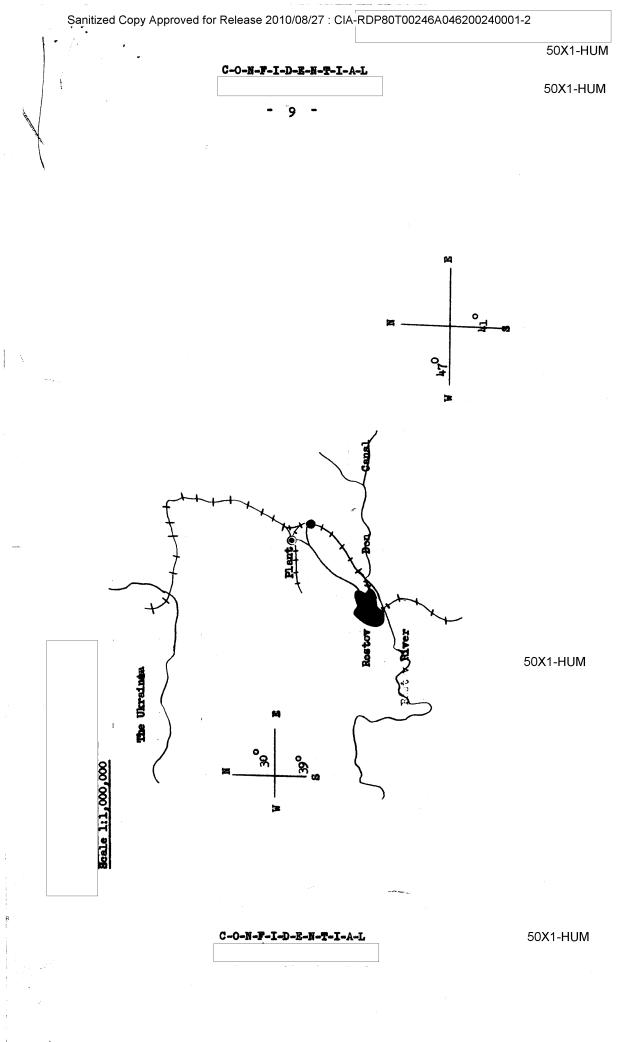
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Two floors:

- a. The lower floor housed the machine-testing shop, the laboratory for experimentation of the sand-mixing process, and a supplementary machine shop. Approximately 500 persons worked here.
- b. Upper floor housed the dining room and offices.
- 1. Dining room and offices.
- 2. Mobile first-aid unit.
- 3. Chemical laboratory.
- 4. Pattern warehouse.
- 5. Manufacture of special bolts used in the construction of locomotives.
- 6. Raw material warehouse.
- 7. Mold shop.
- 8. Shop where parts were cleaned.
- 9. Annealing furnace.
- 10. Steel casting shop.
- 11. Chemical laboratory.
- 12. Klectric furnaces.
- 13. Sand dumps.
- 14. Sand-mixing shop.
- 15. Railroad siding.

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